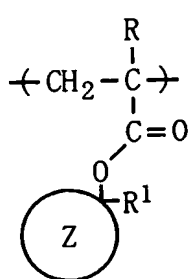


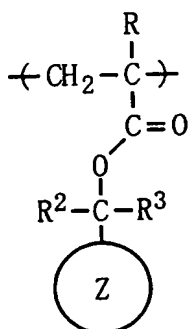
CLAIMS

1. A photoresist resin comprising at least a constitutional repeating unit A containing a group capable of partially leaving
 5 by the action of an acid to thereby become soluble in an alkali;
 and a constitutional repeating unit B containing an alicyclic skeleton having a polar group, wherein the resin has a weight-average molecular weight of 3000 to 15000 and has a content of polymer fractions each having a molecular weight
 10 exceeding 40000 of 4 percent by weight or less of the total resin.

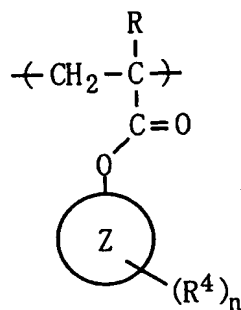
2. The photoresist resin according to claim 1, wherein the constitutional repeating unit A is at least one selected from constitutional repeating units of following Formulae (Ia), (Ib)
 15 and (Ic):



(Ia)



(Ib)

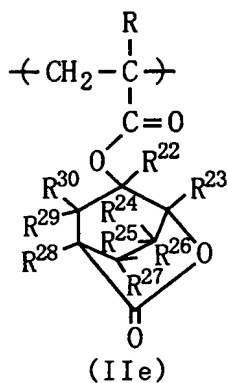
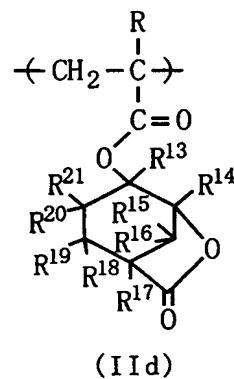
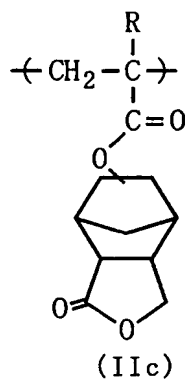
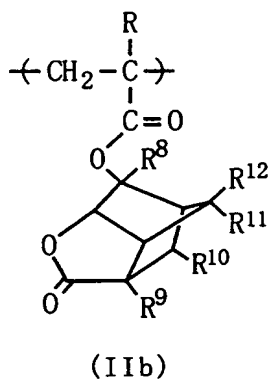
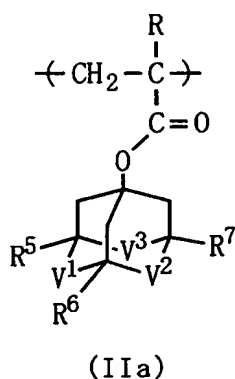


(Ic)

wherein Ring Z is an alicyclic hydrocarbon ring having six to twenty carbon atoms which may be substituted; R is hydrogen atom or an alkyl group having one to six carbon atoms; R¹, R²

and R^3 may be the same as or different from one another and are each an alkyl group having one to six carbon atoms; R^4 s are substituents combined with Ring Z, may be the same as or different from each other and are each oxo group, an alkyl group, 5 a hydroxyl group which may be protected by a protective group, a hydroxyalkyl group which may be protected by a protective group, or a carboxyl group which may be protected by a protective group, wherein at least one of nR^4 s is a $-COOR^a$ group, wherein R^a is a tertiary hydrocarbon group which may be substituted, 10 tetrahydrofuranyl group, tetrahydropyranyl group or oxepanyl group; and n is an integer of 1 to 3.

3. The photoresist resin according to claim 1 or 2, wherein the constitutional repeating unit B is at least one selected from constitutional repeating units of following Formulae (IIa), 15 (IIb), (IIc), (IIId) and (IIe):



wherein R is hydrogen atom or an alkyl group having one to six carbon atoms; R⁵, R⁶ and R⁷ may be the same as or different from one another and are each hydrogen atom, an alkyl group, a hydroxyl group which may be protected by a protective group, a hydroxyalkyl group which may be protected by a protective group, or a carboxyl group which may be protected by a protective group; V¹, V² and V³ may be the same as or different from one another and are each -CH₂-, -CO- or -COO-, wherein (i) at least one of V¹, V² and V³ is -CO- or -COO-, or (ii) at least one of R⁵, R⁶ and R⁷ is a hydroxyl group which may be protected by a protective group, a hydroxyalkyl group which may be protected by a

protective group, or a carboxyl group which may be protected by a protective group; R^8 , R^9 , R^{10} , R^{11} and R^{12} may be the same as or different from one another and are each hydrogen atom, an alkyl group, a hydroxyl group which may be protected by a protective group, a hydroxyalkyl group which may be protected by a protective group, or a carboxyl group which may be protected by a protective group; R^{13} , R^{14} , R^{15} , R^{16} , R^{17} , R^{18} , R^{19} , R^{20} and R^{21} may be the same as or different from one another and are each hydrogen atom, an alkyl group, a hydroxyl group which may be protected by a protective group, a hydroxyalkyl group which may be protected by a protective group, or a carboxyl group which may be protected by a protective group; and R^{22} , R^{23} , R^{24} , R^{25} , R^{26} , R^{27} , R^{28} , R^{29} and R^{30} may be the same as or different from one another and are each hydrogen atom, an alkyl group, a hydroxyl group which may be protected by a protective group, a hydroxyalkyl group which may be protected by a protective group, or a carboxyl group which may be protected by a protective group.

4. A photoresist resin composition, as a solution comprising the photoresist resin of any one of claims 1 to 3 and a light-activatable acid generator in a solvent.

5. A process for preparing a photoresist resin composition, comprising the step of dissolving the photoresist resin of any one of claims 1 to 3 in a solvent.